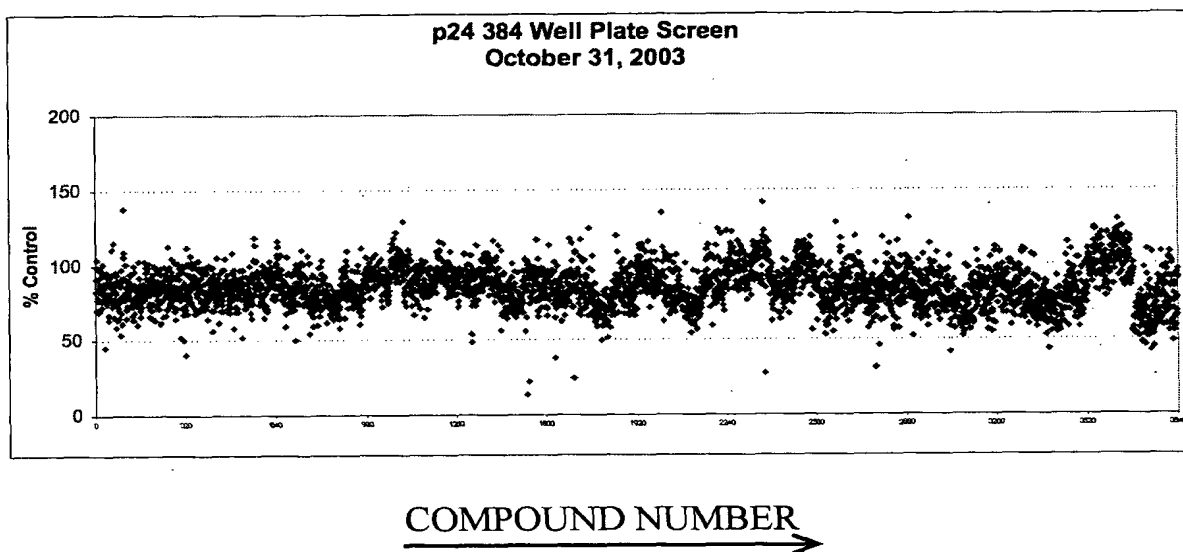
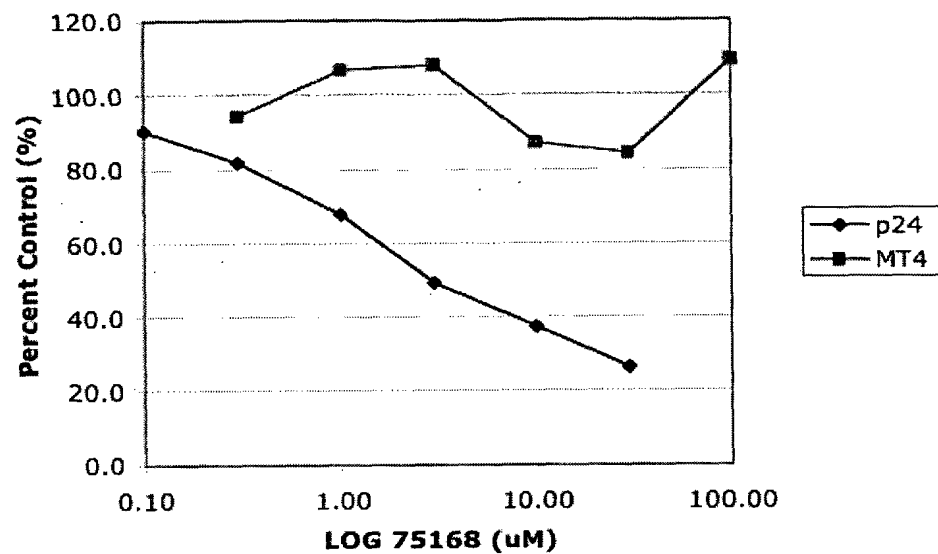


**Figure 1:** Known Steps in the Rev/RRE Pathway

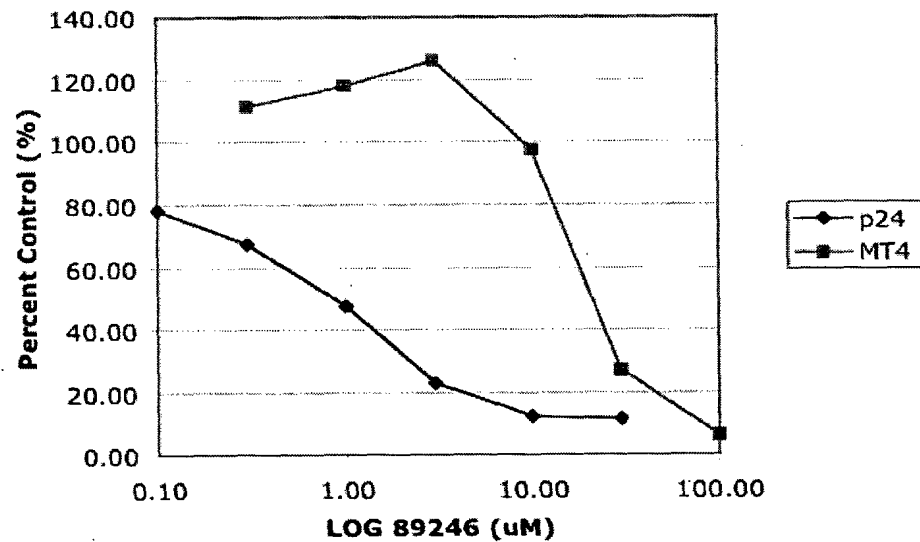


**Figure 2** Screening of approximately 4000 compounds out of 40,000 total screened (9 other similar graphs not shown). Compounds that gave an inhibition of HIV particle formation below 50% were chosen for further study.

### 3A Dose Response (p24) and Toxicity (MT4) Assays Compound 75168



### 3B Dose Response (p24) and Toxicity (MT4) Assays Compound 89246

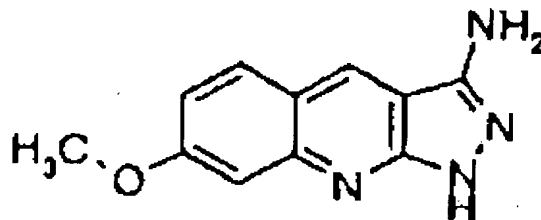


**Figure 3:** Six point dose response assay in 5BD.1 cells and toxicity assay in MT4 cells.

This is the type of data used to calculate the  $IC_{50}$  and  $TC_{50}$  of each compound.

## Figure 4

**4A**

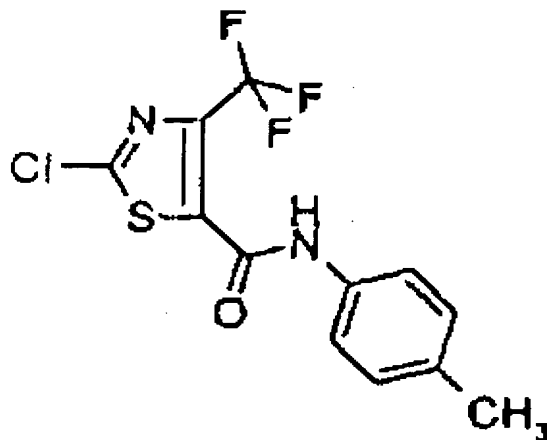


**Code Name:** 89246

**Specs Name:** AG-690/40701421

**Chemical Name:** 7-methoxy-1H-pyrazolo[3,4-b]quinolin-3-ylamine,

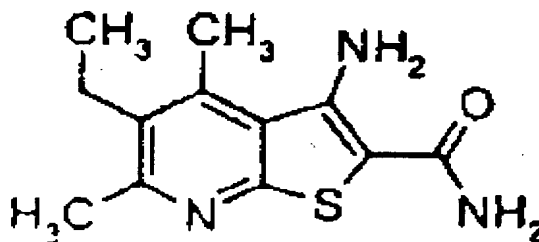
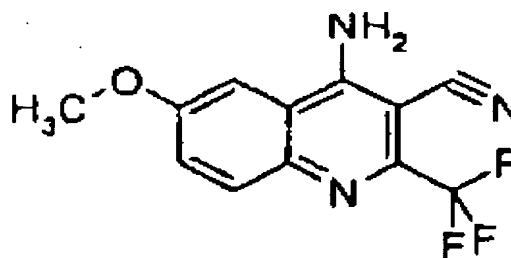
**4B**

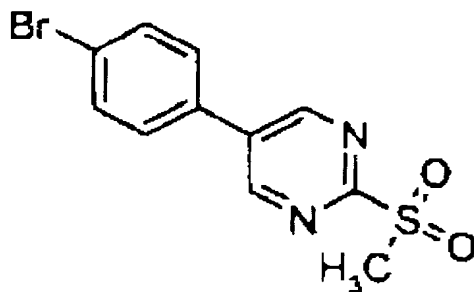
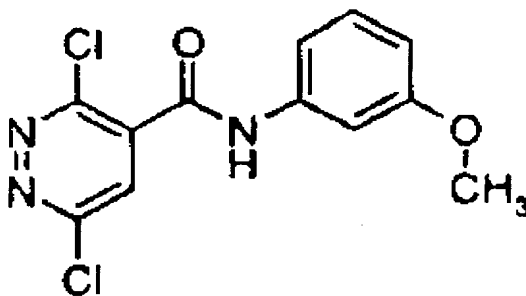


**Code Name:** 91161

**Specs Name:** AP-501/40888738

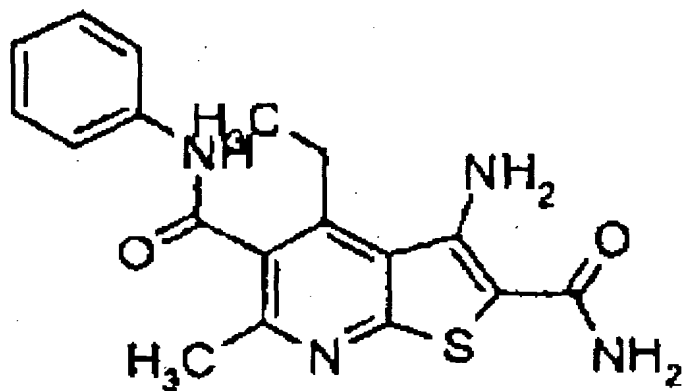
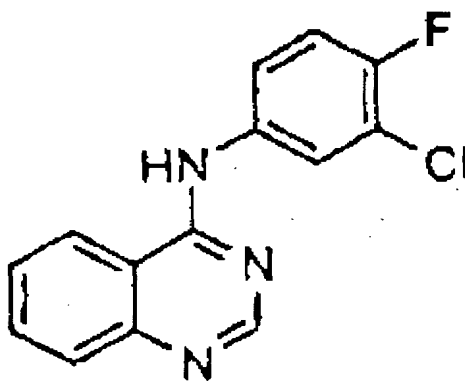
**Chemical Name:** 2-chloro-N-(4-methylphenyl)-4-(trifluoromethyl)-1,3-thiazole-5-carboxamide,

**4C****Code Name:** 103833**Specs Name:** AE-848/34435011**Chemical Name:** 3-amino-5-ethyl-4,6-dimethylthieno[2,3-b]pyridine-2-carboxamide,**4D****Code Name:** 104366**Specs Name:** AG-687/25019010**Chemical Name:** 4-amino-6-methoxy-2-(trifluoromethyl)-3-quinolinecarbonitrile,

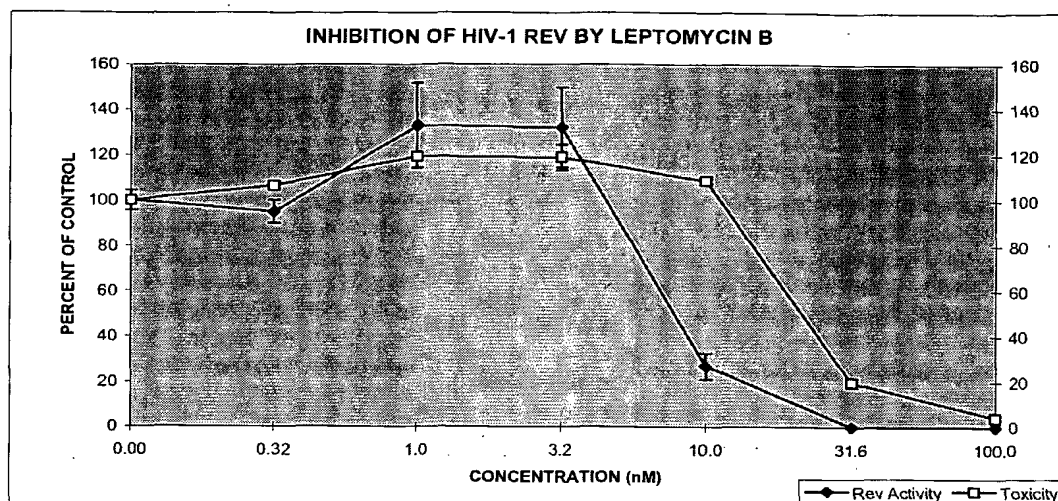
**4E****Code Name:** 107129**Specs Name:** AC-907/25005415**Chemical Name:** -(4-bromophenyl)-2-(methylsulfonyl)pyrimidine**4F****Code Name:** 107740**Specs Name:** AF-399/40653810**Chemical Name:** 3,6-dichloro-N-(3-methoxyphenyl)-4-pyridazinecarboxamide,

**4G**

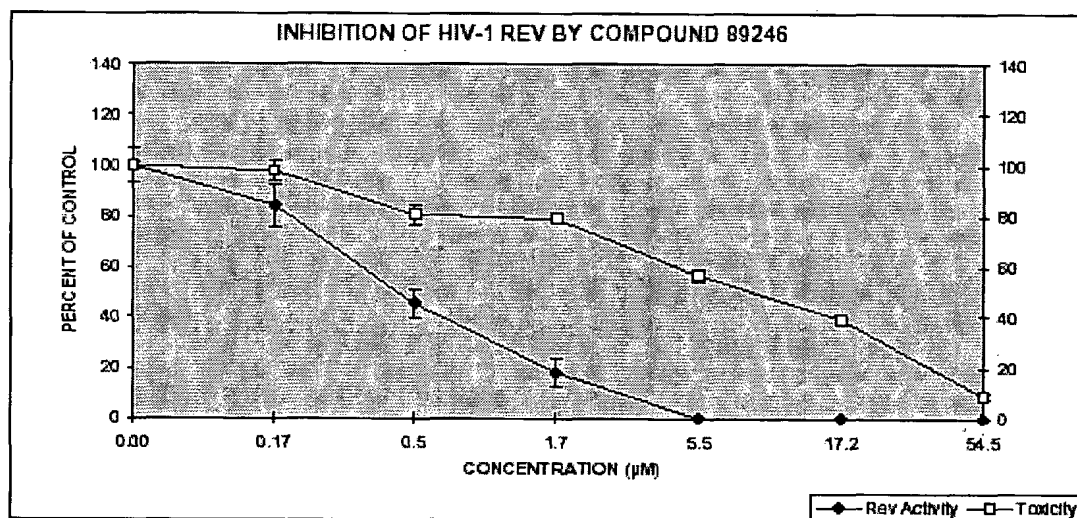
and

**Code Name:** 75168**Specs Name:** AE-848/34435026**Chemical Name:** 3-amino-4-ethyl-6-methyl-N-phenylthieno[2,3-b]pyridine-2,5-dicarboxamide,**4H****Code Name:** 109020**Specs Name:** AP-906/41641102**Chemical Name:** N-(3-chloro-4-fluorophenyl)-N-(4-quinazolinyl)amine

5A



5B



5C

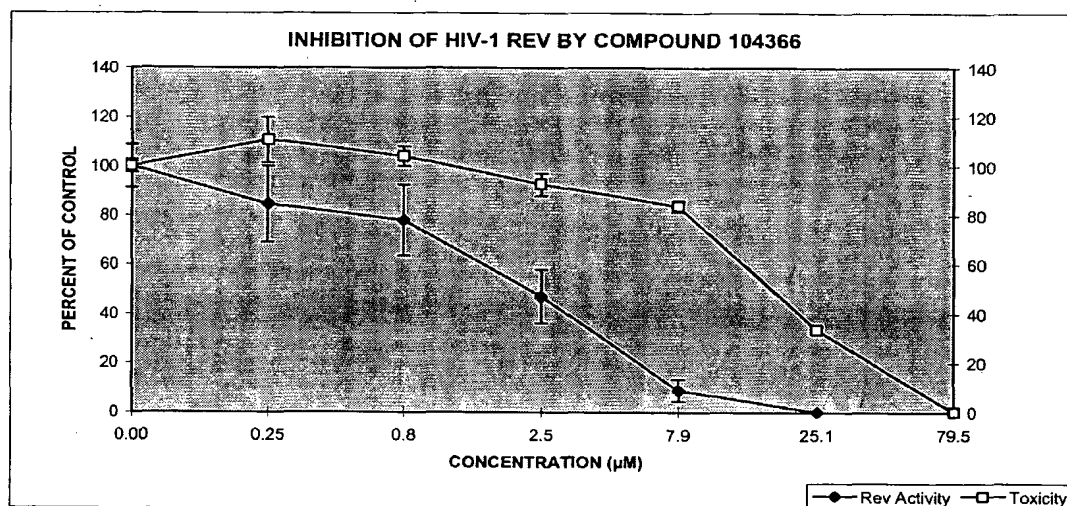
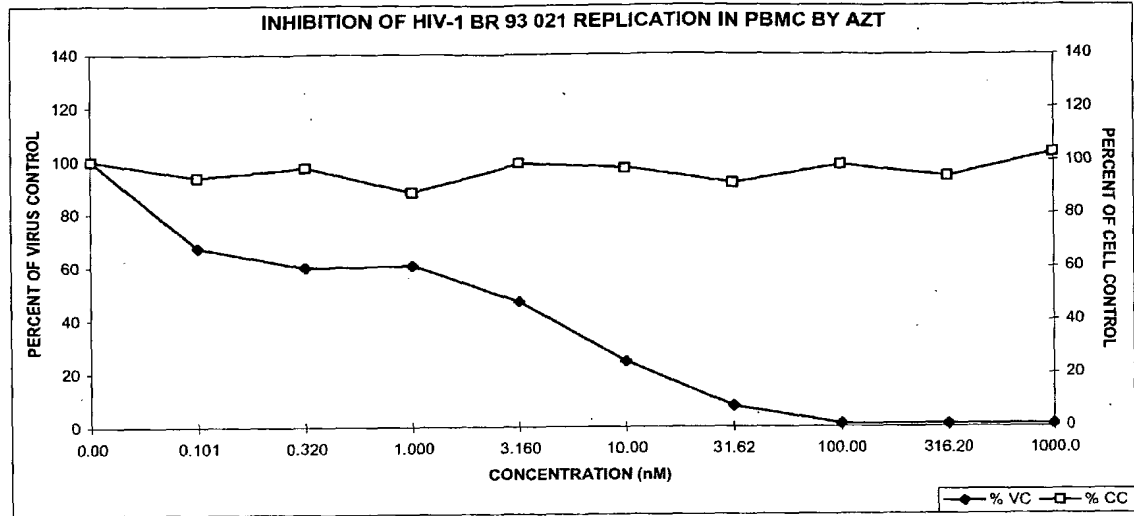
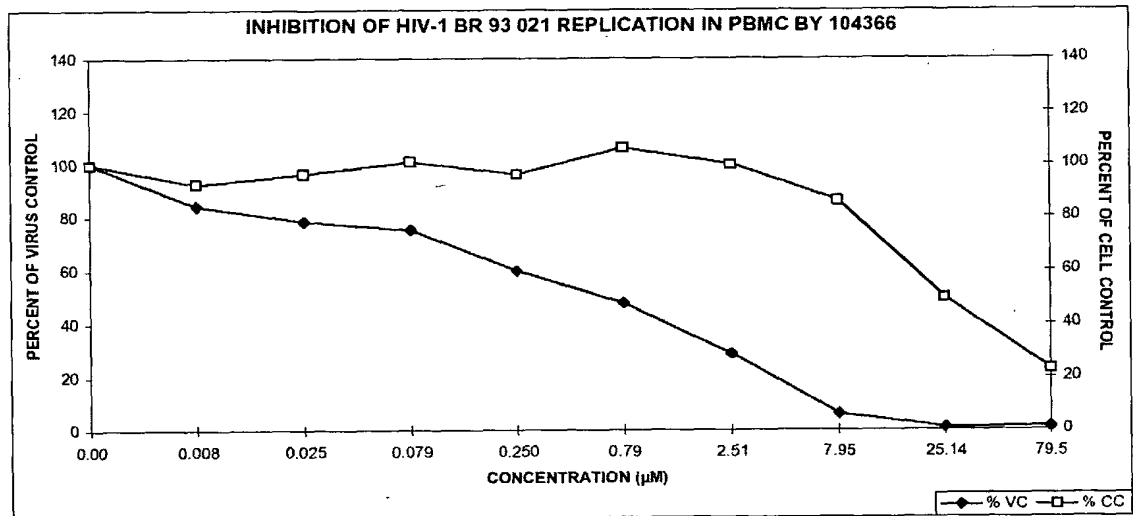
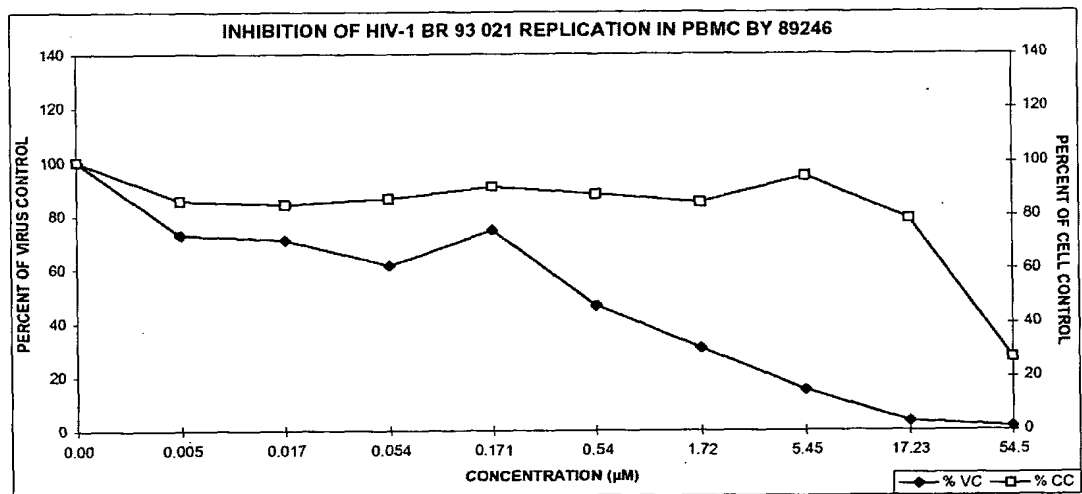
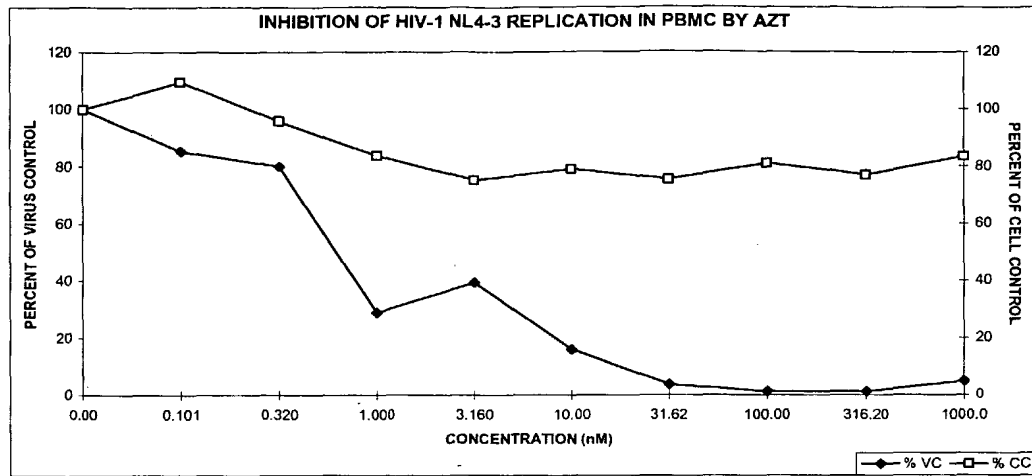


Figure 5

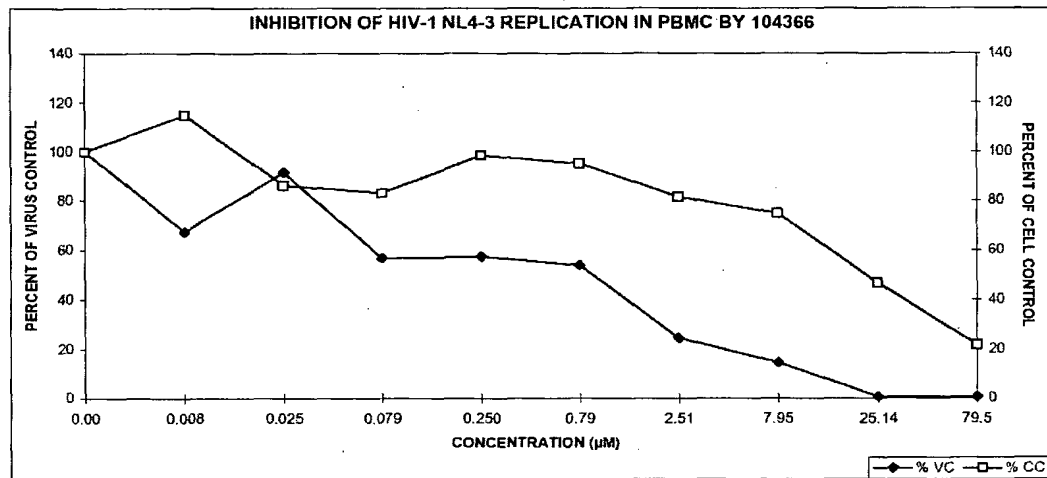


**6A****6B****6C****Figure 6**

7A



7B



7C

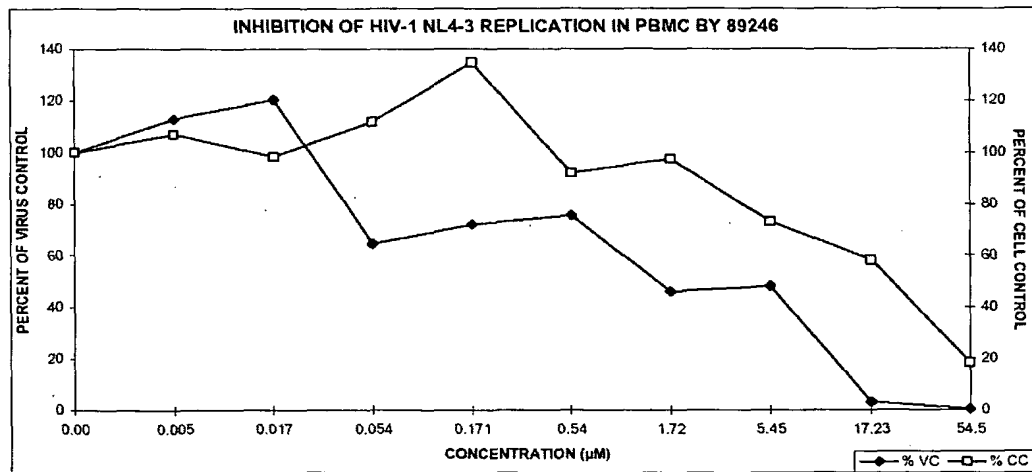


Figure 7

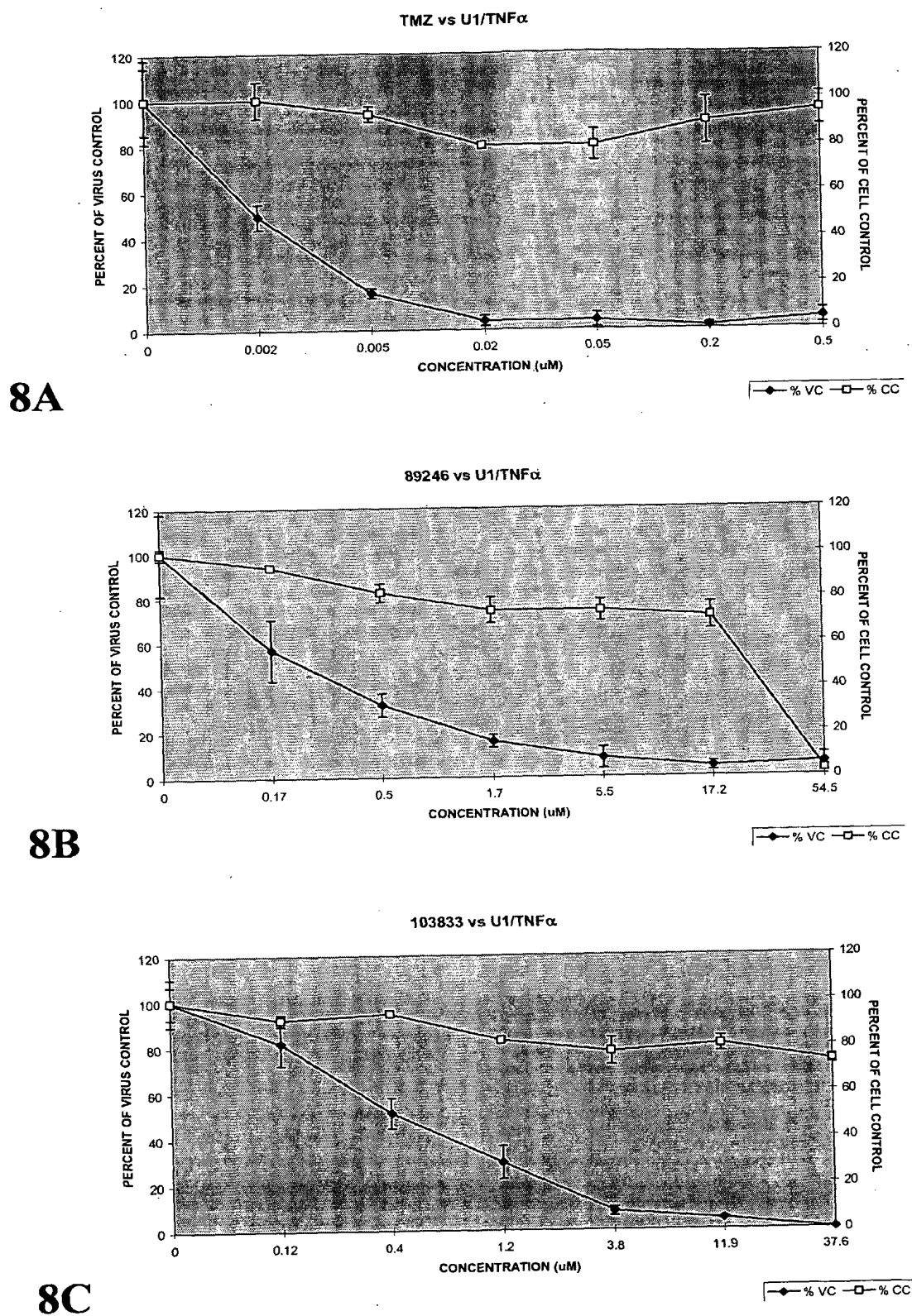
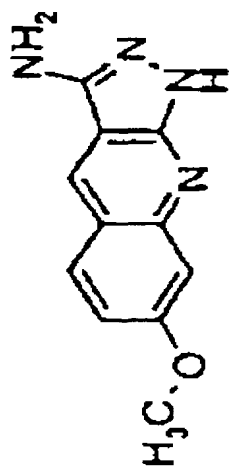
**Figure 8**

Figure 9

Analogues of 89246



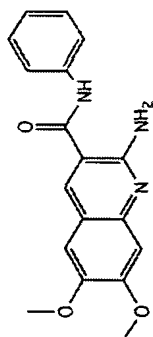
Code Name: 89246

Specs Name: AG-690/40701421

PARENTAL COMPOUND

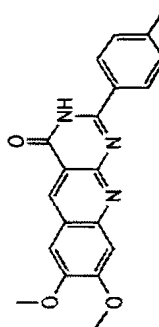
Specs name: Code name:

AG-205/40649270 113



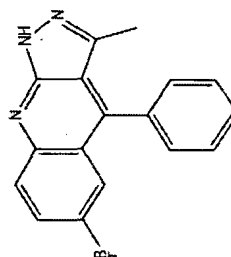
Specs name: Code name:

AG-205/41004335 114

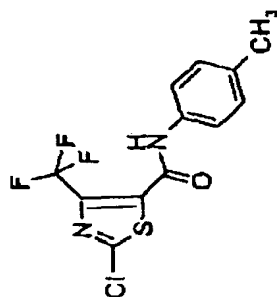


Specs name: Code name:

AH-283/08743005 112



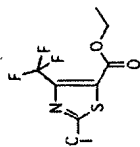
**Figure 10**  
**Analogs of 91161**



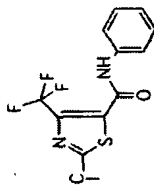
Code Name: 91161

Specs Name: AP-501/4088738  
PARENTAL COMPOUND

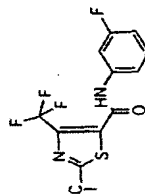
Specs name: Code:  
AP-501/40804729 411



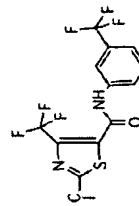
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AP-501/40804731 412



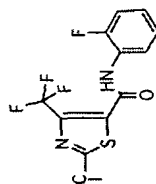
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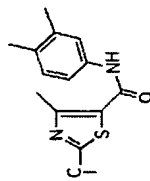
Specs name: Code:  
AP-501/40804576 414



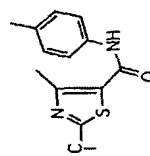
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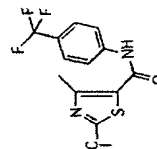
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AP-501/40888735 416



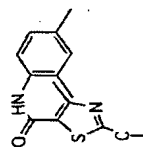
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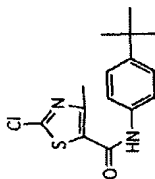
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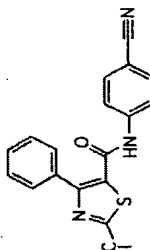
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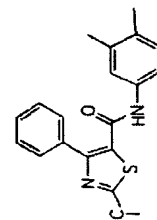
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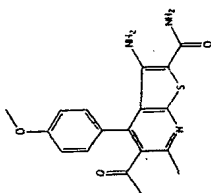
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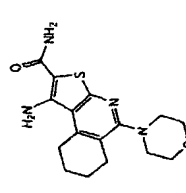
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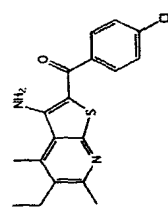
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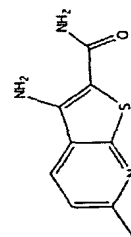
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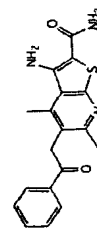
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 AE-848/34405027 **313**



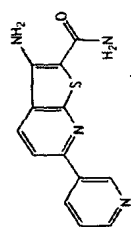
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 AG-205/08592044 **314**



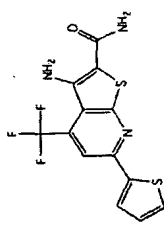
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 AG-205/11791740 **315**



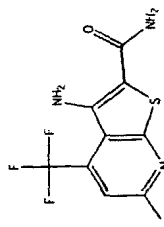
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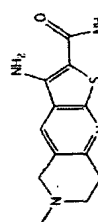
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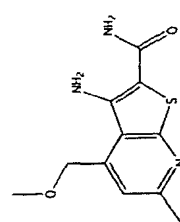
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 AG-205/33139015 **318**



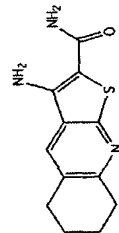
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 AG-205/33140013 **319**



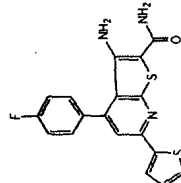
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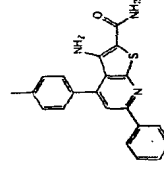
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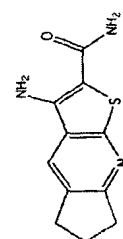
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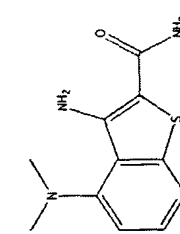
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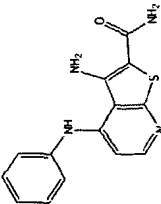
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 AG-690/34037018 **324**



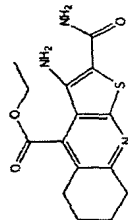
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 AH-262/34335029 **325**



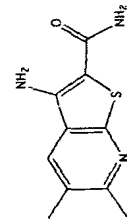
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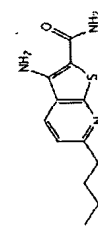
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 AK-777/11500050 **327**



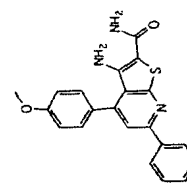
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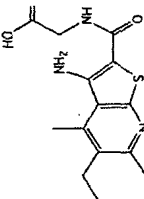
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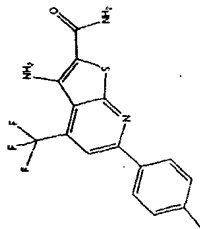
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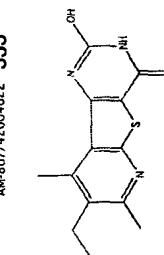
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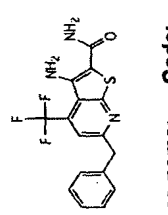
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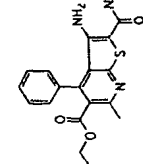
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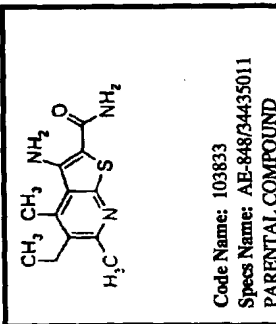
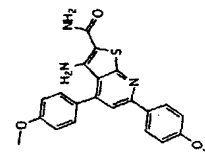
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**Specs name: Code:**  
 AO-799/43115183 **338**



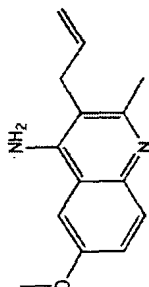
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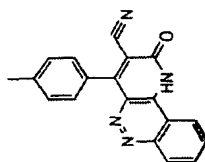
**Code Name: 103833**  
**Specs Name: AE-848/34435011**  
**PARENTAL COMPOUND**

**Figure 11**  
**Analogs of 103833**

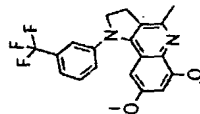
Specs name: AG-690/34152022  
Code name: 214



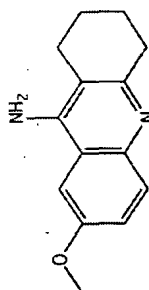
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Code name: 215



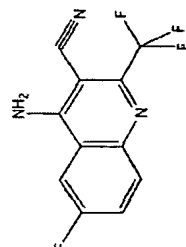
Specs name: AO-476/40672158  
Code name: 216



Specs name: AE-641/30178019  
Code name: 211



Specs name: AG-390/09686016  
Code name: 212



Specs name: AG-690/09708030  
Code name: 213

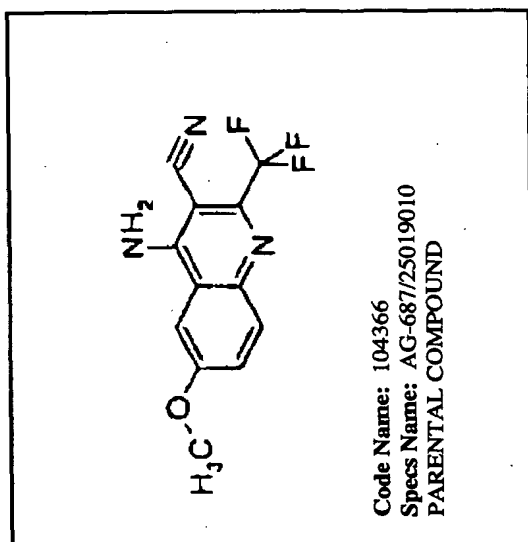
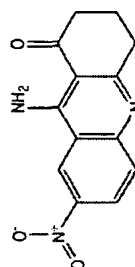
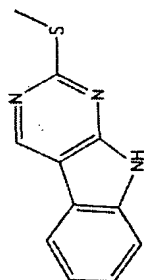
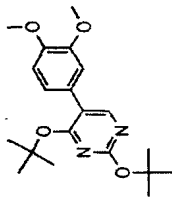


Figure 12  
Analogues of 104366

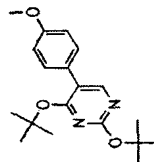
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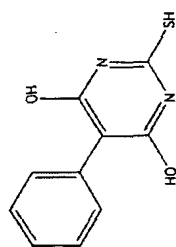
Specs name: Code:  
AI-942/42301997 617



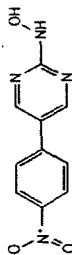
Specs name: Code:  
AI-942/42301998 618



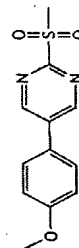
Specs name: Code:  
AC-907/34128001 613



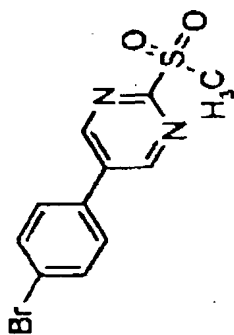
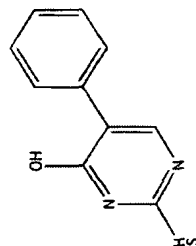
Specs name: Code:  
AE-848/32726016 614



Specs name: Code:  
AF-936/31262044 615



Specs name: Code:  
AC-907/30063010 612

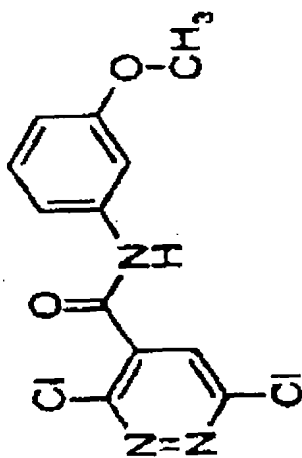


Code Name: 107129  
Specs Name: AC-907/25005415  
PARENTAL COMPOUND

Figure 13  
Analog of 107129

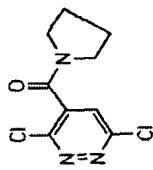


Figure 14  
Analogues of 107740

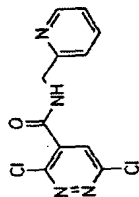


Code Name: 107740  
Specs Name: AF-399/40653810  
PARENTAL COMPOUND

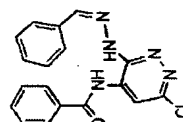
Specs name: AF-399/40653844  
Code: 514



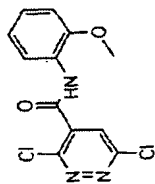
Specs name: AF-399/40653847  
Code: 515



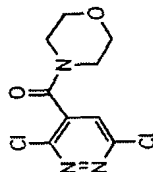
Specs name: AM-944/40947865  
Code: 516



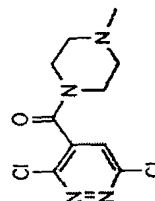
Specs name: AF-399/40653811  
Code: 511

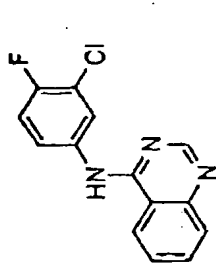


Specs name: AF-399/40653841  
Code: 512

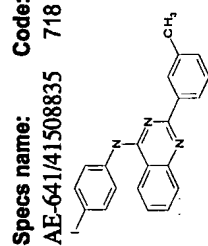
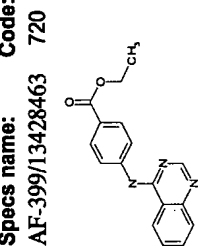
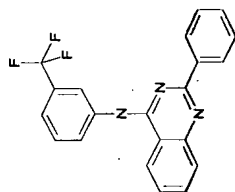
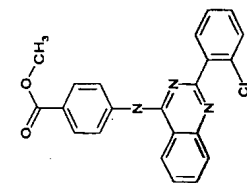
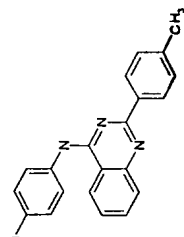
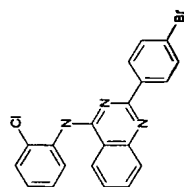
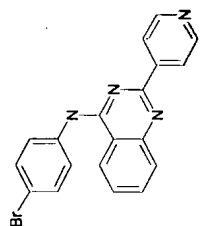
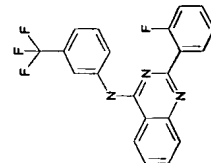
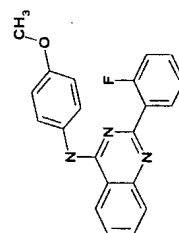
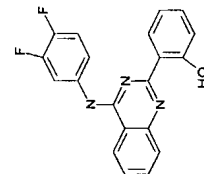
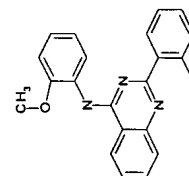
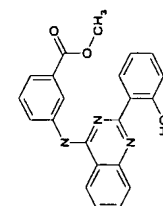
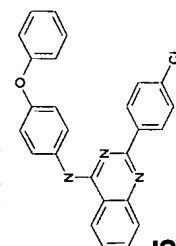
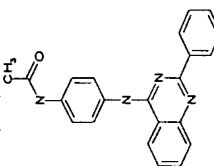
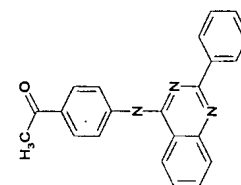
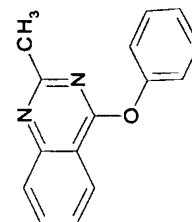


Specs name: AF-399/40653842  
Code: 513





Code name: 109020

Specs Name: AP-906/41641102  
PARENTAL COMPOUNDSpecs name: AE-641/41508835  
Code: 718Specs name: AF-399/13428463  
Code: 720Specs name: AF-399/13565054  
Code: 722Specs name: AF-399/15284600  
Code: 728Specs name: AF-399/41147834  
Code: 729Specs name: AF-399/41147837  
Code: 730Specs name: AJ-292/11896050  
Code: 731Specs name: AJ-292/13162013  
Code: 734Specs name: AJ-292/41722570  
Code: 748Specs name: AJ-292/41722653  
Code: 749Specs name: AJ-292/41722682  
Code: 750Specs name: AJ-292/41722689  
Code: 751Specs name: AJ-292/41722693  
Code: 752Specs name: AP-906/41641069  
Code: 753Specs name: AP-906/41641088  
Code: 754Specs name: AP-906/41641089  
Code: 755Specs name: AE-562/12222957  
Code: 756Figure 15  
Analogues of 109020